

## **METHOD FOR VALIDATING SYSTEM CONFIGURATION IN A MASS CUSTOMIZED ENVIRONMENT**

### **ABSTRACT OF THE DISCLOSURE**

5           A method for validating a specific device configuration when the set of  
all valid configurations is too large to practically enumerate. The method  
comprises the steps of selecting a set of components to be included in the  
device configuration, wherein the set has a single sink component in the set  
with only sink interfaces; defining an interface for each component, wherein  
10   each component is characterized as having a source or a sink property; and  
establishing connections between components based on the interface of each  
component. Connections are validated by ensuring that source and sink  
components have the same property values. Connections are established by  
verifying that the capacity of the sink is greater than or equal to the capacity of  
15   the source, and determining that for each source property there is one sink  
property with the same value and for each source property that there is one  
sink property with the same value.